INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/25422

G! A CCI	FICATION OF SUBJECT MATTER	
c(6) :A6	51K 39/395, 39/385	
CL :42	4/143.1, 193.1 nternational Patent Classification (IPC) or to both national classification and IPC	
imum doc	S SEARCHED umentation searched (classification system followed by classification symbols)	
c · 42	4/143.1, 193.1	
	n searched other than minimum documentation to the extent that such documents are included	in the fields searched
umentatio	n scarcifed other data was a	
	I (comp of data base and, where practicable,	search terms used)
ctronic da	ta base consulted during the international search (name of data base and, where practicable,	
APS, DIAL	,og	
DOC	UMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
ategory*	Citation of document, with indication, where appropriate, of the relevant passages	No.
	"Doptobody": A new type of high avidity	1-36
	hinding protein Proc. Natl. Acad. Sci. OST.	
	94, pages 1663-1668, see entire document.	
	EP 0 459 577 A2 (MERCK & CO. INC.) 04 December 1991, see	1-33
<i>l</i>	EP 0 459 577 A2 (MERCK & CO. INC.) 64 255555	
	entire document.	1-12, 19-23, 25
Y	WELPLY, J.K. et al. A Peptide Isolated by Phage Display Binds to	
•	WELPLY, J.K. et al. A Peptide Isolated by Plage IICAM-1 and Inhibits Binding to LFA-1. PROTEINS: Structure Function, and Genetics. 1996, Vol. 26, pages 262-270, see entire	e
	Function, and Genetics. 1990, vol. 20, pages	
	document.	
X Fu	orther documents are listed in the continuation of Box C. See patent family annex	tional filing date or priorit
X Fu	rther documents are listed in the continuation of the second cause of cited documents.	e international filing date or priorit
X Fu	Special categories of cited documents. Specia	e international filing date or priorit application but cited to understan ig the invention
-	Special categories of cited documents. Special categories of cited documents. document defining the general state of the art which is not considered to be of particular relevance earlier document published after the unternational filing date "X" later document published after the date and not in conflict with the principle or theory underlying the principle or the principle	e international filing date or priorit application but cited to understan ig the invention i.e. the claimed invention cannot l insidered to involve an inventive stan ne
.v.	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filing date document which may throw doubts on priority claim(s) or which is document which may throw doubts of snother citation or other	e international filing date or priorit application but cited to understan ing the invention i.e. the claimed invention cannot it insidered to involve an inventive su- ne ce, the claimed invention cannot to the claimed invention cannot
.F.	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filling date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *Y* later document published after the date and not in conflict with the principle or theory underlying the principle or theory	e international filing date or priorit application but cited to understan- ing the invention ie, the claimed invention cannot it insidered to involve an inventive su- ne ce, the claimed invention cannot entive step when the document or such documents, such combination
	Special categories of cited documents. Special categories of cited documents. document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means are highlighed error to the international filing date but later than "X" later document published after the date and not in conflict with the principle or theory underlying document of particular relevance considered novel or cannot be considered novel or cannot	e international filing date or priorit application but cited to understan ig the invention i.e. the claimed invention cannot i maidered to involve an university as ince ce, the claimed invention cannot entive step when the document or such documents, such combinati ed in the art patent family
.0. .R. .Y.	Special categories of cited documents. Special categories of cited documents. document defining the general state of the art which is not considered to be of particular relevance on after the international filing date document which may throw doubts on priority claim(s) or which is coted to establish the publication date of another cutation or other special reason (as specified) document published on or after the international filing date document which may throw doubts on priority claim(s) or which is coited to establish the publication date of another cutation or other special reason (as specified) document published on or after the international filing date but later than the priority date claimed to involve an involve an involve and document published prior to the international filing date but later than the principle or theory underlying the principle or theory underlying to the principle or theory underlying the principle or theory underlying to the principle or theory underlying to document of particular relevance considered novel or cannot be considered nove	e international filing date or priorit application but cited to understan ig the invention i.e. the claimed invention cannot i maidered to involve an university as ince ce, the claimed invention cannot entive step when the document or such documents, such combinati ed in the art patent family
.0. .R. .Y.	Special categories of cited documents. Special categories of cited documents. document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document published prior to the international filing date but later than document published prior to the unternational filing date but later than the priority date claimed Tr later document published after the date and not in conflict with the principle or theory underlying document of particular relevance considered novel or cannot be cowhen the document is taken alo document of particular relevance considered to involve an involve an involve an involve and in	e international filing date or priorit application but cited to understan ig the invention i.e. the claimed invention cannot t maidered to involve an university as ince ce, the claimed invention cannot entive step when the document or such documents, such combinati ed in the art patent family
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· A· · · · · · · · · · · · · · · · · ·	Special categories of cited documents. Special categories of cited documents. document defining the general state of the art which is not considered to be of particular relevance earlier document published on or after the international filling date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filling date but later than the priority date claimed Date of mailing of the international transport of the international search Date of mailing of the international transport of the international search Authorized officer Authorized officer	e international filing date or priorit application but cited to understan ig the invention i.e. the claimed invention cannot i snidered to involve an unventive stan ince ce, the claimed invention cannot entive step when the document or such documents, such combinate du in the art patent family al search report
· A· · · · · · · · · · · · · · · · · ·	Special categories of cited documents. Special categories of cited documents. document defining the general state of the art which is not considered to be of particular relevance of carnot be considered to be of particular relevance of carnot be considered document published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed EBRUARY 1999 and mailing address of the ISA/US missioner of Patents and Trademarks T.* later document published after the date and not in conflict with the principle or theory underlying document of particular relevance considered novel or cannot be considered novel or cann	e international filing date or priorit application but cited to understan ig the invention i.e. the claimed invention cannot t maidered to involve an inventive at ince ce, the claimed invention cannot entive step when the document or such documents, such combination patent family al scarch report

INTERNATIONAL SEARCH REPORT

International application No. PCT/US98/25422

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant	t passages	Relevant to claim No.
Y	HOFER, F. et al. Members of the low density lipoprotein family mediate cell entry of a minor-group common cold Proc. Natl. Acad. Sci. USA. March 1994, Vol. 91, page 1842, see entire document.	in receptor d virus.	1-6, 13-18, 20-22, 24-26, 28-30, 32- 34, 36
Y	HODITS, R. A. et al. An Antibody Fragment from a Display Library Competes for Ligand Binding to the Lo Lipoprotein Receptor Family and Inhibits Khinovirus In Journal of Biological Chemistry. 13 October 1995, Vo 41, pages 24078-24085, see entire document.	fection. The	1-6, 13-18, 20-22, 24-26, 28-30, 32-34, 36



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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

10

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231

ÉTATS-UNIS D'AMÉRIQUE

Date of mailing (day/month/year) 3 i August 1999 (3 i เบิช.99)	in its capacity as elected Office				
International application No. PCT/US98/25422	Applicant's or agent's file reference 238/270 PCT				
International filing date (day/month/year) 30 November 1998 (30.11.98)	Priority date (day/month/year) 01 December 1997 (01.12.97)				
Applicant					

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	15 June 1999 (15 06 99)
	in a notice effecting later election filed with the International Bureau on:
2	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Marie-José Devillard

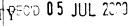
Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

FANG, Fang

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(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference 238/270 PCT	FOR FURTHER ACTION		cation of Transmittal of International Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/month/year)		Priority date (day/month/year)		
PCT/US98/25422	30 NOVEMBER 1998		01 DECEMBER 1997		
International Patent Classification (IPC) IPC(7): A61K 39/395, 39/385 and U Applicant		С			
ČFY BIOMEDICALS, INC.					
Examining Authority and is	transmitted to the applicant	been prepar	red by this International Preliminary Article 36.		
2. This REPORT consists of a	total of sheets.				
been amended and are the see Rule 70.16 and Sec	ne basis for this report and/or she tion 607 of the Administrative	ets containing	ription, claims and/or drawings which have g rectifications made before this Authority nder the PCT).		
These annexes consist of a t	otal of <u></u> sheets				
3. This report contains indication	us relating to the following it	ems:			
I X Basis of the repo	ort				
II Priority					
III Non-establishme	nt of report with regard to no	velty, inventi	ve step or industrial applicability		
IV Lack of unity of	invention				
V X Reasoned stateme citations and expla	nt under Article 35(2) with regardantions supporting such statem	ard to novelty ent	, inventive step or industrial applicability		
VI Certain documents	cited				
VII Certain defects in t	the international application				
VIII Certain observation	ns on the international applicate	m			
Date of submission of the demand	Date	of completion	of this report		
15 JUNE 1999		MAV 2000	•		
IN JOINE 1777		MAY 2000			
Name and mailing address of the IPEA/		rized officer	^ - ^		
Box PCT Washington, D.C. 20231		ONNA C. WO	ORTMAN, PH.D.		
Facsimile No. (703) 305-3230	Telep	none No. (7	703) 308-0196		

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US98/25422

Basis of the	report	RECEIVE
With regard to the	e elements of the international app	
X the interna	itional application as original	lly filed
the descrip	otion:	FCH CENTER 160
pages	1-20	, as originally filed
pages	NONE	, filed with the demand
pages		, filed with the letter of
X the claims	:	
pages		, as originally filed
pages	NONE	, as amended (together with any statement) under Article 19
pages		, filed with the demand
pages	NONE , fil	led with the letter of
the drawin	ngs:	
pages		. as originally filed
pages	NONE	, filed with the demand
pages	NONE	, filed with the letter of
the sequen	ce listing part of the description	on:
pages	NONE	, as originally filed
pages	NONE	. filed with the demand
pages	NONE	, filed with the letter of
the languag	ge of publication of the intern	rnational application (under Rule 48.3(b)).
the language or 55.3).	e of the translation furnished for	r the purposes of international preliminary examination (under Rules 55.2 and
		acid sequence disclosed in the international application, the international the basis of the sequence listing:
7	in the international application	· -
		plication in computer readable form
₹	subsequently to this Authority	
	subsequently to this Authority	
The statement international	ent that the subsequently furnis	ished written sequence listing does not go beyond the disclosure in the a furnished.
The stateme been furnish	nt that the information recorded led.	d in computer readable form is identical to the writen sequence listing has
The amend	lments have resulted in the ca	cancellation of:
_ [J]	lescription, pages NONE	<u>:</u>
$\overline{\mathbf{x}}$	laims, Nos. NONE	
	lrawings, sheets/fig NONE	
		the amendments had not been made, since they have been considered to go
eplacement sheet	ts which have been furnished to th	in the Supplemental Box (Rule 70.2(c)).** the receiving Office in response to an invitation under Article 14 are referred to
i this report as nd 70,17).	"originally filed" and are not a	annexed to this report since they do not contain amendments (Rules 70.16
*	sheet containing such amondm	nents must be referred to under item 1 and approved to this report

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US98/25422

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability	<i>'</i> :
	citations and explanations supporting such statement	,

l	statement			
	Novelty (N)	Claims	1-36	YES
		Claims	NONE	NO
	Inventive Step (IS)	Claims	NONE	YES
		Claims	1-36	NO
		(N. :	1.26	
	Industrial Applicability (IA)	Claims	1.36	ĀĒ\$
		Claums	NONE	NO NO

2 citations and explanations (Rule 70.7)

Claims 1-18 and 34-36 lack an inventive step under PCT Article 33(3) as being obvious over Terskikh et al. in view of Welply et al. and Hodits et al. Terskikh et al. disclose the synthesis and the advantages of high avidity multivalent binding proteins termed "peptabodies" which can also be combined so as to form heteropentamers with bispecific binding properties. Terskikh et al. do not teach "peptabodies" that are specific for ICAM-1 and/or LDL receptors. Welply et al. describe isolation of a peptide from a phage display library that binds to ICAM-1, which is known to function as a receptor for a rhinovirus coat protein. Hodits et al. disclose isolation of an antibody fragment from a phage display library that binds to LDL receptor, also known to function as a rhinovirus receptor. It would have been obvious to one of ordinary skill in the art to construct the "peptabody" of Terskikh et al. that is specific for the ICAM-1 rhinovirus receptor of Welply et al. and/or specific for the LDL receptor rhinovirus receptor of Hodits et al. because Terskikh et al. disclose the "peptabody" construction to be generally applicable for making high avidity binding proteins that are either monospecific or bispecific.

Claims 19-33 lack an inventive step under PCT Article 33(3) as being obvious over Terskikh et al., Welply et al., and Hodits et al., further in view of EP 0 459 577. The teachings of Terskikh et al. Welply et al., and Hodits et al. are set forth above. Hodits et al. additionally teaches that the peptide that specifically binds to LDL receptor inhibits rhinovirus infection. EP 0 459 577 discloses a recombinant binding portion of a monoclonal antibodies that specifically binds to ICAM-1 and blocks rhinovirus attachment to cells. It would have been obvious to one of ordinary skill in the art to use the "peptabody" of Terskikh et al. that is specific for the ICAM-1 rhinovirus receptor of Welply et al. and/or that of EP 0 459 577, that is specific for the LDL receptor rhinovirus receptor of Hodits et al. to prevent rhinovirus infection because Hodits et al. and EP 0 459 577 disclose that peptides that bind to ICAM-1 and/or to LDL receptor prevent rhinovirus attachment and infection.

(Continued on Supplemental Sheet.)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US98/25422

upplemental Box To be used when the space in any of the preceding boxes is not sufficient)	
Continuation of. Boxes I - VIII	Sheet 10
V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continue	ed):
Claims 1-36 meet the criteria set out in PCT Article 33(2) because the prior art does nutribodies or peptides that bind to ICAM-1 and/or LDL receptor and prevent rhinovirus	ot anticipate multivalent recombinants infection.
Claims 1-36 meet the criteria for industrial applicability set out in PCT Article 33(4).	
NONE	

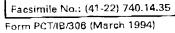
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PCT Rule 92bis.1 and Administrative Instructions, Section 422)	WEBER, Kenneth, A. Townsend and Townsend and Crew LLP Two Embarcadero Center, 8th floor San Francisco, CA 94111-3834 ETATS-UNIS D'AMERIQUE			
Date of mailing (day/month/year) 18 July 2000 (18.07.00)				
Applicant's or agent's tile reference 19815-1PC		IMPORTANT NOT	JHCATIŬN	
International application No. PCT/US98/25422		nal filing date (day/month/y ovember 1998 (30,11		
The following indications appeared on record concerning: the applicant the inventor Name and Address	X the agen	t the comm	non representative	
KREUSSER, Ed., O. Lyon & Lyon LLP Suite 4700 633 West los CA 90071-2066		Telephone No. (619) 552-8400 Facsimile No.		
Los Angeles, CA 90071-2066 United States of America	·	(213) 955-0440 Teleprinter No.		
The International Bureau hereby notifies the applicant that X the person	t the following	the nationality	d concerning: the residence	
Name and Address WEBER, Kenneth, A.		State of Nationality	State of Residence	
Townsend and Townsend and Crew LLP Two Embarcadero Center, 8th floor San Francisco, CA 94111-3834		Telephone No. (415) 576-0200		
United States of America		Facsimile No. (415) 576-0300 Teleprinter No.		
3. Further observations, if necessary: Please note new reference number.				
4. A copy of this notification has been sent to: X the receiving Office the International Searching Authority the International Preliminary Examining Authority		the designated Offic X the elected Offices o X other: KREUSER,	oncern e d	
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20. Switzerland	Authorize	ed officer A. Karkach	ni	

Telephone No.: (41-22) 338.83.38

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To: KENNETH A. WEBER TOWNSEND AND TOWNSEND AND CREW LLP TWO EMBARCADERO CENTER, 8TH FLOOR SAN FRANCISCO, CALIFORNIA 94111-3834

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> NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

> > (PCT Rule 71.1)

Date of Mailing (day/month/year)

03 JUL 2000

Applicant's or agent's file reference

PC 238/270 PCT 019815 - 1

IMPORTANT NOTIFICATION

International application No

PCT/US98/25422

International filing date (day/month/year) . 30 NOVEMBER 1998

Priority Date (day/month/year)

01 DECEMBER 1997 •

Applicant

CFY BIOMEDICALS, INC.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the international Buteau for communication 7 to all the clected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices 3.

REMINDER

4-1-00 (undocketed)

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national ices) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the rominder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks

Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

DONNA C. WORTMAN, PH.D.

Telephone No. (703) 308-0196

Form PCT/IPEA/416 (July 1992)★



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WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : A61K 39/395, 39/385		(11) International Publication Number:	WO 99/27964	
110111 077070, 077000		(43) International Publication Date:	10 June 1999 (10.06.99)	
(21) International Application Number: PCT/US (22) International Filing Date: 30 November 1998 (22) (30) Priority Data: 60/067,119 60/083,046 24 April 1998 (24.04.98) 60/090,632 25 June 1998 (25.06.98) (71) Applicant (for all designated States except US BIOMEDICALS, INC. [US/US]; 7155-B Calab San Diego, CA 92122 (US). (72) Inventor; and (75) Inventor; and (75) Inventor; Applicant (for US only): FANG, Fang 7155-B Calabria Court, San Diego, CA 92122 (US). (74) Agents: CHEN, Anthony, C. et al.; Lyon & Lyon I 4700, 633 West Fifth Street, Los Angeles, CA 90 (US).	(30.11.9): CI (CN/U.); CI (CN/	BY, CA, CH, CN, CU, CZ, DE, GH, GM, HR, HU, ID, IL, IS, LC, LK, LR, LS, LT, LU, LV, MX, NO, NZ, PL, PT, RO, RU TJ, TM, TR, TT, UA, UG, US, patent (GH, GM, KE, LS, MW, S patent (AM, AZ, BY, KG, KZ, M patent (AT, BE, CH, CY, DE, IE, IT, LU, MC, NL, PT, SE), CG, CI, CM, GA, GN, GW, ML Published With international search report.	DK, EE, ES, FI, GB, GE, JP, KE, KG, KP, KR, KZ, MD, MG, MK, MN, MW, SD, SE, SG, SI, SK, SL, UZ, VN, YU, ZW, ARIPO SD, SZ, UG, ZW), Eurasian ID, RU, TJ, TM), European DK, ES, FI, FR, GB, GR, OAPI patent (BF, BJ, CF, MR, NE, SN, TD, TG).	

(54) Title: MULTIVALENT RECOMBINANT ANTIBODIES FOR TREATING HRV INFECTIONS

(57) Abstract

The present invention relates to high affinity multivalent recombinant antibodies and multivalent peptides against ICAM-1 and/or LDL receptor and pharmaceutical compositions containing such multivalent antibodies or multivalent peptides. The present invention also relates to methods of using such multivalent antibodies or multivalent peptides to prevent and treat human rhinovirus infection and diseases and pathological conditions associated therewith.

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